### Notice of Intent (NOI) for coverage under Small MS4 General Permit $^{Page\ 1\ of\ 19}$

### Part I: General Conditions

| General Information  |   |
|--|---|
| Name of Municipality or Organization: Town of Litchfield   | State: NH   |
| EPA NPDES Permit Number (if applicable): NHR041015   |   |
| Primary MS4 Program Manager Contact Information  |   |
| Name: Troy Title: Brown  |   |
| Street Address Line 1: 2 Liberty Way   |   |
| Street Address Line 2:   |   |
| City: Litchfield State: NH   | Zip Code: 03052   |
| Email: Tbrown@Litchfieldnh.gov Phone Number: (603)   | 424-4046  |
| Fax Number: (603) 424-3014   |   |
| Other Information  |   |
| Stormwater Management Program (SWMP) Location (web address or physical location, if already completed):  | t Plan not completed  |
| Eligibility Determination  |   |
| Endangered Species Act (ESA) Determination Complete? Yes   | Eligibility Criteria<br>(check all that apply):                     |
| National Historic Preservation Act (NHPA) Determination Complete?  | Eligibility Criteria<br>(check all that apply): ☐ A ☐ B ☐ C ☐ D     |
| Check the box if your municipality or organization was covered under the   | 2003 MS4 General Permit   |
| MS4 Infrastructure (if covered under the 2003 permit)  |   |
|  | 3 requirements not met, enter an e of completion (MM/DD/YY):        |
| Web address where MS4 map is published:  If outfall map is upgrallable on the internet an electronic  Litchfieldnh.gov   |   |
| If outfall map is unavailable on the internet an electronic or paper copy of the outfall map must be included with NOI submission (see section V for submission options) |   |
| Regulatory Authorities (if covered under the 2003 permit)  |   |
| Illicit Discharge Detection and Elimination (IDDE) Authority Adopted? (Part II, III, IV or V, Subpart B.3.(b.) of 2003 permit)   | Effective Date or Estimated Date of Adoption (MM/DD/YY):            |
| Construction/Erosion and Sediment Control (ESC) Authority Adopted? Ye (Part II,III,IV or V, Subpart B.4.(a.) of 2003 permit)   | s Effective Date or Estimated Date of Adoption (MM/DD/YY): 05/06/03 |
| Post-Construction Stormwater Management Adopted? (Part II, III, IV or V, Subpart B.5.(a.) of 2003 permit)  | Effective Date or Estimated Date of Adoption (MM/DD/YY):  05/06/03  |

### Part II: Summary of Receiving Waters

Please list the waterbody segments to which your MS4 discharges. For each waterbody segment, please report the number of outfalls discharging into it and, if applicable, any

New Hampshire list of impaired waters: <a href="http://des.nh.gov/organization/divisions/water/wmb/swqa/">http://des.nh.gov/organization/divisions/water/wmb/swqa/</a>

Check off relevant pollutants for discharges to impaired waterbodies (see above 303(d) lists) without an approved TMDL in accordance with part 2.2.2 of the permit. List any other pollutants in the last column, if applicable.





### Part III: Stormwater Management Program Summary

Identify the Best Management Practices (BMPs) that will be employed to address each of the six Minimum Control Measures (MCMs).

For each MCM, list each existing or proposed BMP by category and provide a brief description, responsible parties/departments, measurable goals, and the year the BMP will be employed (public education and outreach BMPs also requires a target audience.) Use the drop-down menus in each table or enter your own to text to override the drop down menu.

MCM 1: Public Education and Outreach

| BMP Media/<br>Category                            | BMP<br>Description   | Targeted<br>Audience   | Responsible<br>Department/Parties  | Measurable<br>Goal   | Beginning<br>Year of<br>BMP<br>Implement<br>ation |
|---|--|--|--|--|---|
| Web Page<br>and other<br>promotional<br>materials | Use NH Stormwater Coalition outreach materials and guidance -implementing outreach for relevant impairments city wide. | Residents  | NH Regional Stormwater Coalition  See: https://www4des.stat e.nh.us/nh- ms4/?page id=54  | 1) Increased awareness of how fertilizer works. 2) Increased awareness of pet waste impacts to water quality. 3) Increased awareness of yard waste impacts to water quality. | Yearly  |
| Promotional<br>Material                           | Use NH Stormwater Coalition outreach materials and guidance -implementing outreach for relevant impairments city wide. | Businesses,<br>Institutions<br>and<br>Commercial<br>Facilities | NH Regional Stormwater Coalition  See: <a href="https://www4des.state.nh.us/nh-ms4/?page">https://www4des.state.nh.us/nh-ms4/?page</a> id=54 | See Residents  | 2019  |
| Promotional<br>Materials                          | Use NH Stormwater Coalition outreach materials and guidance for developers audience.                                   | Developers<br>(construction<br>)                               | NH Regional Stormwater Coalition  See: <a href="https://www4des.state.nh.us/nh-ms4/?page">https://www4des.state.nh.us/nh-ms4/?page</a> id=54 | Local developers<br>aware of federal<br>SW regulations   | 2019  |
| Promotional<br>Materials                          | Use NH<br>Stormwater<br>Coalition<br>outreach<br>materials and<br>guidance for   | Industrial<br>Facilities                                       | NH Regional Stormwater Coalition  See: <a href="https://www4des.state.nh.us/nh-">https://www4des.state.nh.us/nh-</a>                         | Increased<br>awareness of<br>Industrial<br>facilities permit   | 2020  |



|                          | developers audience.  |  | ms4/?page id=54  |  |      |
|--------------------------|---|--|--|--|------|
| Promotional<br>Materials | Use NH Stormwater Coalition outreach materials and guidance for developers audience.  | Developers<br>(construction<br>)                               | NH Regional Stormwater Coalition  See: <a href="https://www4des.statenh.us/nh-ms4/?page">https://www4des.statenh.us/nh-ms4/?page</a> id=54           | Local developers<br>aware of local<br>SW regulations | 2022 |
|                          | NA- see<br>previous page.<br>Doing every<br>year starting in<br>2019.   | Businesses,<br>Institutions<br>and<br>Commercial<br>Facilities | NH Regional Stormwater Coalition  See: <a href="https://www4des.stat-e.nh.us/nh-ms4/?page-id=54">https://www4des.stat-e.nh.us/nh-ms4/?page-id=54</a> |  |      |
|                          | NA- See<br>previous   | Developers<br>(construction<br>)                               | NH Regional Stormwater Coalition  See: https://www4des.stat e.nh.us/nh- ms4/?page id=54  |  |      |
| Promotional<br>Materials | No industrial facilities located in MS4, OR: use NH Stormwater Coalition outreach materials and guidance for industrial facilities. | Industrial<br>Facilities                                       | NH Regional<br>Stormwater Coalition  See: https://www4des.state.nh.us/nh-ms4/?page_id=54   | Attendees to webinar.                                | 2023 |



### MCM 2: Public Involvement and Participation

| BMP<br>Categorization | Brief BMP<br>Description   | Responsible Department/Partie s | Additional Description/ Measurable Goal  | Beginning Year of BMP Implementation |
|-----------------------|--|---------------------------------|--|--------------------------------------|
| Public Review         | SWMP Review: SWMP will be posted on the town/city website for public review. The SWMP will be reviewed annually and updated/revised as necessary.        | Department of<br>Public Works   | Allow annual review of stormwater management plan and posting of stormwater management plan on website | Year 2                               |
| Public Participation  | The SWMP will be presented or communicated by a "memo" annually to the public with opportunity for comment. Meeting minutes will record public comments. | Department of<br>Public Works   | Allow public to<br>comment on<br>stormwater<br>management plan<br>annually                             | Year 2                               |



### MCM 3: Illicit Discharge Detection and Elimination (IDDE)

| BMP Categorization                      | BMP Description   | Responsible Department/Parties | Measurable Goal  |
|---|---|--------------------------------|--|
| Sanitary Sewer Overflow (SSO) inventory | Develop SSO inventory in accordance of permit conditions                      | Department of Public<br>Works  | Complete within 1 year of effective date of permit   |
| Storm sewer system map                  | Create map and update<br>during IDDE program<br>completion                    | Department of Public<br>Works  | Update map within 2 years of effective date of permit and complete full system map 10 years after effective date of permit |
| Written IDDE program development        | Create written IDDE program   | Department of Public<br>Works  | Complete within 1 year of<br>the effective date of<br>permit and update as<br>required                                     |
| Implement IDDE program                  | Implement catchment investigations according to program and permit conditions | Department of Public<br>Works  | Complete 10 years after effective date of permit   |
| Employee training                       | Train employees in IDDE implementation  | Department of Public Works     | Train annually   |
| Conduct dry weather screening           | Conduct in accordance with outfall screening procedure and permit conditions  | Department of Public<br>Works  | Complete 3 years after effective date of permit  |
| Conduct wet weather screening           | Conduct in accordance with outfall screening procedure                        | Department of Public<br>Works  | Complete 10 years after effective date of permit   |
| Ongoing screening                       | Conduct dry weather and wet weather screening (as necessary)                  | Department of Public<br>Works  | Complete ongoing outfall screening on completion of IDDE program   |



### MCM 4: Construction Site Stormwater Runoff Control

| BMP Categorization  | BMP Description   | Responsible Department/Parties | Measurable Goal  |
|---|---|--------------------------------|--|
| Site inspection and<br>enforcement of Erosion<br>and Sediment Control<br>(ESC) measures | Complete written procedures of site inspections and enforcement procedures  | Planning Department            | Complete within 1 year of the effective date of permit |
| Site Plan Review  | Complete written procedures of site plan review and begin implementation  | Planning Department            | Complete within 1 year of the effective date of permit |
| Erosion and sediment<br>Control   | Adoption of requirements<br>for construction operators<br>to implement a sediment<br>and erosion control<br>program   | Planning Department            | Complete within 1 year of the effective date of permit |
| Waste Control   | Adoption of requirements to control wastes, including but not limited to, discarded building materials, concrete truck wash out, chemicals, litter, and sanitary wastes | Planning Department            | Complete within 1 year of the effective date of permit |



### MCM 5: Post-Construction Stormwater Management in New Development and Redevelopment

| BMP Categorization  | BMP Description  | Responsible Department/ Parties | Measurable Goal   |
|---|--|---------------------------------|---|
| As-built plans for on-site stormwater control   | The procedures to require submission of as-built drawings and ensure long term operation and maintenance will be a part of the SWMP  | Planning Department             | Require submission of as-<br>built plans for completed<br>projects                            |
| Target properties to reduce impervious areas  | Complete an inventory and priority ranking of permitee-owned property and existing infrastructure that could be retrofitted with BMPs designed to reduce the frequency, volume and pollutant loads of stormwater discharges to its MS4 through the mitigation of impervious area | Planning Department             | Complete 4 years after effective date of permit and report annually on retrofitted properties |
| Allow green infrastructure  | Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist   | Planning Department             | Complete 4 years after effective date of permit and implement recommendations of report       |
| Street design and parking<br>lot guidelines   | Develop a report assessing requirements that affect the creation of impervious cover. The assessment will help determine if changes to design standards for streets and parking lots can be modified to support low impact design options.                                       | Planning Department             | Complete 4 years after effective date of permit and implement recommendations of report       |
| Ensure any stormwater controls or management practices for new development and redevelopment meet the retention or treatment requirements of the permit and consistent with the Southeast Watershed Alliance's Model Stormwater Standards for Coastal | Adoption, amendment, or modification of a regulatory mechanism to meet permit requirements   | Planning Department             | Complete 2 years after effective date of permit   |



Watershed Communities

Part III: Stormwater Management Program Summary (continued)

### MCM 6: Municipal Good Housekeeping and Pollution Prevention

| BMP<br>Categorization  | BMP<br>Description  | Responsible Department/Partie s | Measurable<br>Goal   | Beginning Year<br>of BMP<br>Implementatio<br>n |
|--|---|---------------------------------|--|--|
| O&M<br>procedures  | Create written O&M procedures including all requirements contained in 2.3.7.1 for parks and open spaces, buildings and facilities, and vehicles and equipment | Department of Public Works      | Complete and implement 2 years after effective date of permit          | 2020   |
| Inventory all permittee- owned parks and open spaces, buildings and facilities, and vehicles and equipment | Create inventory  | Department of<br>Public Works   | Complete 2 years after effective date of permit and implement annually | 2020   |
| Infrastructure<br>O&M  | Establish and implement program for repair and rehabilitation of MS4 infrastructure   | Department of<br>Public Works   | Complete 2<br>years after<br>effective date of<br>permit               | 2020   |
| Stormwater<br>Pollution<br>Prevention Plan<br>(SWPPP)  | Create SWPPPs<br>for maintenance<br>garages, transfer<br>stations, and<br>other waste-<br>handling<br>facilities  | Department of<br>Public Works   | Complete 2 years after effective date of permit                        | 2020   |
| Catch basin cleaning   | Establish<br>schedule for<br>catch basin<br>cleaning such   | Department of<br>Public Works   | Clean catch<br>basins on<br>established<br>schedule and                | 2019   |



|                 | that each catch  |               | report number    |      |
|-----------------|------------------|---------------|------------------|------|
|                 | basin is no more | l.            | of catch basins  |      |
|                 | than 50% full    |               | cleaned and      |      |
|                 | and clean catch  |               | volume of        |      |
|                 | basins on that   |               | material moved   |      |
|                 | schedule         |               | annually         |      |
| Street sweeping | Sweep all        | Department of | Sweep all        | 2019 |
| program         | streets and      | Public Works  | streets and      |      |
|                 | permitee-owned   |               | permitee-owned   |      |
|                 | parking lots in  |               | parking lots     |      |
|                 | accordance with  |               | once per year in |      |
|                 | permit           |               | the spring       |      |
|                 | conditions       |               |                  |      |
| Road salt use   | Establish and    | Department of | Implement salt   | 2020 |
| optimization    | implement a      | Public Works  | use optimization |      |
| program         | program to       |               | during deicing   |      |
|                 | minimize the     |               | season           |      |
|                 | use of road salt |               |                  |      |
| Inspections and | Establish and    | Department of | Inspect and      | 2020 |
| maintenance of  | implement        | Public Works  | maintain         |      |
| stormwater      | inspection and   |               | treatment        |      |
| treatment       | maintenance      |               | structures at    |      |
| structures      | procedures and   |               | least annually   |      |
|                 | frequencies      |               |                  |      |

Part III: Stormwater Management Program Summary (continued)

Actions for Meeting Total Maximum Daily Load (TMDL) Requirements



or more than one, enter your own text to override drop-down menus. If submitting a NHDES approved alternative reduction plan, attach and submit it with the NOI. Use the drop-down menus to select the applicable TMDL, action description to meet the TMDL requirements, and the responsible department/parties. If no options are applicable,

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| Town Manager /Mayor's Office  | Adhere to requirements in Part II.1 of Appendix F | New Hampshire Statewide (Bacteria)   |
| Responsible Department/Parties (enter your own text to override the drop down menu) | Action Description                                | Applicable TMDL  |
|   |   |  |

Part III: Stormwater Management Program Summary (continued)

Actions for Meeting Requirements Related to Water Quality Limited Waters



override drop-down menus. Use the drop-down menus to select the pollutant causing the water quality limitation and enter the waterbody ID(s) experiencing excursions above water quality standards for that pollutant. Choose the action description from the dropdown menu and indicate the responsible party. If no options are applicable, or more than one, enter your own text to

| Pollutant  | Waterbody ID(s)                 | Action Description                              | Responsible Department/Parties (enter your own text to override the drop down menu) |
|------------|---------------------------------|---|---|
| Phosphorus | NHLAK70061002-01-01 Darrah Pond | Adhere to requirements in part II of Appendix H | Town Manager /Mayor's Office  |
|            |                                 |   |   |
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Part IV: Notes and additional information

Use the space below to indicate the part(s) of 2.2.2 that you have identified as not applicable to your MS4 and provide all supporting documentation below or attach additional documents if necessary.

Provide any additional information about your MS4 program below.

|  | _ |
|--|---|
| The Town of Litchfield obtained an official species list for threatened and endangered species via the IPaC system within the regulated urbanized area. Per the IPaC system, one species exists within the MS4 regulated area: the Northern Long-eared Bat (Myotis septentrionalis). Based on the habitat of this species, it is our opinion that the current stormwater discharges will have "no effect" on the listed species because no construction is being conducted, there will be no disturbances to terrestrial habitats of the Long-eared Bat. On September 6, 2018, the town consulted with EPA and was informed that a print out of the area (attached) would acceptable documentation. The Town will be certifying for criterion C. |   |
|  |   |
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### Part V: Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name:

BRENT T. LEMIRE

Title:

SELECT BOARD CHAIR

Signature Field

Great J. Lenine

Date:

10-1-18

### **NOI Submission**

Please submit the form electronically via email using the "submit by Email" button below or send in a CD with your completed NOI. You may also print and submit via mail at the address below if you choose not to submit electronically. Outfall map required in Part I of the NOI (if applicable) can be submitted electronically as an email attachment OR as a paper copy.

Permittees that choose to submit their NOI electronically by email or by mailing a CD with the completed NOI form to EPA, will be able to download a partially filled Year 1 Annual Report at a later date from EPA.

Submit by Email

Submit by email using this button. Or, send an email with attachments to: stormwater.reports@epa.gov

Save

Save NOI for your records

### **EPA Submittal Address:**

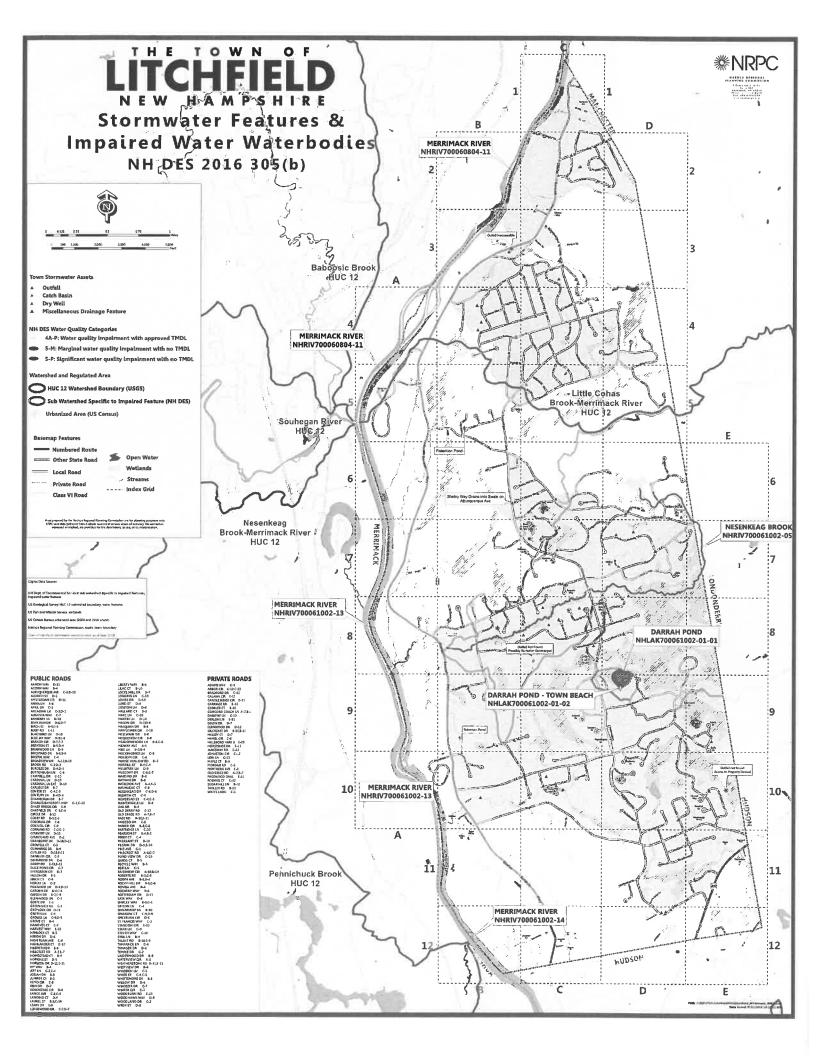
United States Environmental Protection Agency
5 Post Office Square - Suite 100
Mail Code - OEP06-1
Boston, Massachusetts 02109-3912
ATTN: Newton Tedder

### **State Submittal Address**

Massachusetts Department of Environmental Protection One Winter Street - 5th Floor Boston, MA 02108 ATTN: Fred Civian





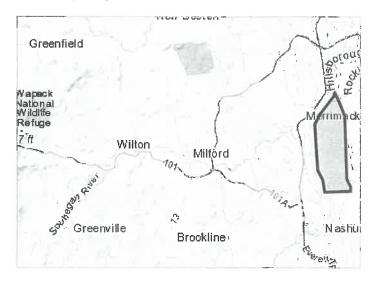




### U.S. Fish & Wildlife Service

### Town of Litchfield, NH

### MS-4 Permit



LOCATION Hillsborough and Rockingham counties, New Hampshire

CREATED October 1, 2018

### Resources

This project potentially impacts 13 resources managed or regulated by the U.S. Fish and Wildlife Service.

- 1 endangered species
- 11 migratory birds
- Refuge and fish hatchery information is not available at this time
- Known wetlands

### What's next?

ENDANGERED SPECIES REVIEW

Review this project's effect on listed species<sup>1</sup> pursuant to the Endangered Species Act, as part of the overall regulatory review.

1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information.

### SPECIES LIST

Requesting an official species list is now part of IPaC's endangered species review.

### Local office

New England Ecological Services





**ECOS** / Species Profile for Northern long-eared Bat (Myotis septentrionalis)

### Northern Long-Eared Bat (Myotis septentrionalis)

Range Information | Federal Register | Recovery | Critical Habitat | Conservation Plans | Petitions | Life History

Taxonomy: View taxonomy in ITIS

**Listing Status: Threatened** 

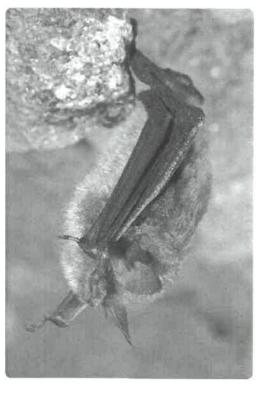
Where Listed: WHEREVER FOUND

### **General Information**

The northern long-eared bat is a medium-sized bat about 3 to 3.7 inches in length but with a wingspan of 9 to 10

inches. As its name suggests, this bat is distinguished by its long ears, particularly as compared to other bats in its genus, Myotis, which are actually bats noted for their small ears (Myotis means mouse-eared). The northern long-eared bat is found across much of the eastern and north central United States and all Canadian provinces from the Atlantic coast west to the southern Northwest Territories and eastern British Columbia. The species' range includes 37 states. White-nose syndrome, a fungal disease known to affect bats, is currently the predominant threat to this bat, especially throughout the Northeast where the species has declined by up to 99 percent from pre-white-nose syndrome levels at many hibernation sites. Although the disease has not yet spread throughout the northern long-eared bat's entire range (white-nose syndrome is currently found in at least 25 of 37 states where the northern long-eared bat occurs), it continues to spread. Experts expect that where it spreads, it will have the same impact as seen in the Northeast.

The species historical range included Alabama, Arkansas, Connecticut, Delaware, District of Columbia, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Vermont, Virginia, West Virginia, Wisconsin, Wyoming. See below for information about where the species is known or believed to occur.



**IPaC** 

U.S. Fish & Wildlife Service

### IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

### Location





### Local office

New England Ecological Services Field Office

**(**603) 223-2541

**(603) 223-0104** 

70 Commercial Street, Suite 300 Concord, NH 03301-5094

http://www.fws.gov/newengland

### Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act requires Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can only be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- 1. Draw the project location and click CONTINUE.
- 2. Click DEFINE PROJECT.
- 3. Log in (if directed to do so).
- 4. Provide a name and description for your project.
- 5. Click REQUEST SPECIES LIST.

Listed species<sup>1</sup> and their critical habitats are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries<sup>2</sup>).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact <u>NOAA Fisheries</u> for <u>species under their jurisdiction</u>.

- Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information.
- 2. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

### **Mammals**

NAME STATUS

Northern Long-eared Bat Myotis septentrionalis No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9045 **Threatened** 

### Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

### Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <a href="http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php">http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php</a>
- Measures for avoiding and minimizing impacts to birds
   <u>http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php</u>
- Nationwide conservation measures for birds <a href="http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf">http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf</a>

The birds listed below are birds of particular concern either because they occur on the <u>USFWS Birds of Conservation Concern</u> (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ <u>below</u>. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the <u>E-bird data mapping tool</u> (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found <u>below</u>.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME

BREEDING SEASON (IF A
BREEDING SEASON IS INDICATED
FOR A BIRD ON YOUR LIST, THE
BIRD MAY BREED IN YOUR
PROJECT AREA SOMETIME WITHIN
THE TIMEFRAME SPECIFIED,
WHICH IS A VERY LIBERAL
ESTIMATE OF THE DATES INSIDE
WHICH THE BIRD BREEDS
ACROSS ITS ENTIRE RANGE.
"BREEDS ELSEWHERE" INDICATES
THAT THE BIRD DOES NOT LIKELY
BREED IN YOUR PROJECT AREA.)

Bald Eagle Haliaeetus leucocephalus

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

https://ecos.fws.gov/ecp/species/1626

Black-billed Cuckoo Coccyzus erythropthalmus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9399">https://ecos.fws.gov/ecp/species/9399</a>

**Bobolink** Dolichonyx oryzivorus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Canada Warbler Cardellina canadensis

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Eastern Whip-poor-will Antrostomus vociferus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

**Lesser Yellowlegs** Tringa flavipes

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679 Breeds Oct 15 to Aug 31

Breeds May 15 to Oct 10

Breeds May 20 to Jul 31

Breeds May 20 to Aug 10

Breeds May 1 to Aug 20

Breeds elsewhere

Prairie Warbler Dendroica discolor

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds May 1 to Jul 31

Rusty Blackbird Euphagus carolinus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds elsewhere

Semipalmated Sandpiper Calidris pusilla

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds elsewhere

Snowy Owl Bubo scandiacus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds elsewhere

Wood Thrush Hylocichla mustelina

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds May 10 to Aug 31

### **Probability of Presence Summary**

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

### Probability of Presence ( )

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.

3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

### Breeding Season (=)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

### Survey Effort (1)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

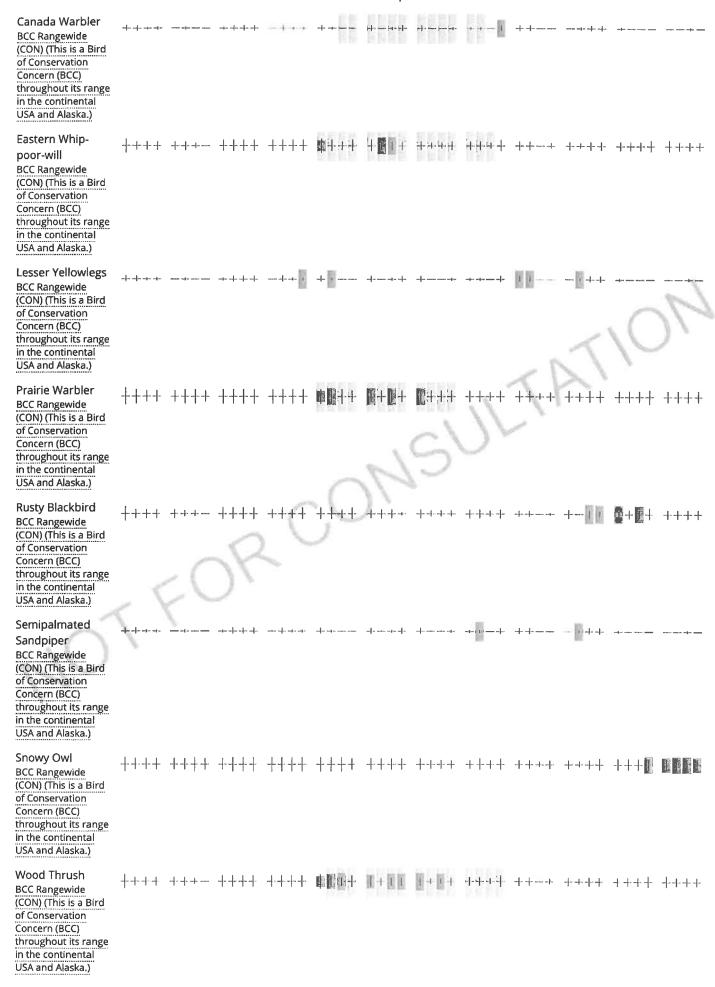
### No Data (-)

A week is marked as having no data if there were no survey events for that week.

### **Survey Timeframe**

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

|   |      |     |      | probability of presence breeding season   survey effort - no dat |        |              |                     |                      |               |      |             |      |
|---|------|-----|------|--|--------|--------------|---------------------|----------------------|---------------|------|-------------|------|
| SPECIES   | JAN  | FEB | MAR  | APR  | MÁY    | JUN          | JUL                 | AUG                  | SEP           | ОСТ  | NOV         | DEC  |
| Bald Eagle Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.) |      | 计擊鬥 |      |  | +#111  | H-+++        | + 11114-11-         |                      | + 15 + +      | ++   | <b>計井井臘</b> | ###  |
| Black-billed Cuckoo BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)  | ++++ | ++  | ++++ | ++++   | +++++  | <del>:</del> | ++++                | <b>6</b> ++ <b>1</b> | ++-+          | ++++ | ++++        | ++++ |
| Bobolink BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)   | ++++ | + + | +++  | ++++   | ++1+1+ | 4-2-4-3-     | والمحاورة والمحاورة | ++++                 | <b>[</b> ]+1· | ++++ | +++         | ++++ |



### Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

<u>Nationwide Conservation Measures</u> describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. <u>Additional measures</u> and/or <u>permits</u> may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

### What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>E-bird Explore Data Tool</u>.

### What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

### How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

### What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Eagle Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

### Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the <u>Northeast Ocean Data Portal</u>. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the <u>NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.</u>

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

### What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

### Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

### **Facilities**

### Wildlife refuges and fish hatcheries

REFUGE AND FISH HATCHERY INFORMATION IS NOT AVAILABLE AT THIS TIME

### Wetlands in the National Wetlands Inventory

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

### FRESHWATER EMERGENT WETLAND

PEM1E

PEM1Eb

PEM1/SS1Eb

PEM1Fb

PEM1/SS1E

PEM1/F05Fb

PEM1/UBF

PEM1F

### FRESHWATER FORESTED/SHRUB WETLAND

PFO4/1E

PFO1/4E

PFO1E

PSS1/EM1E

PSS1E

PSS1Eb

PSS1/4E

PFO4E

PSS1/3E

PFO4/SS1E

PFO1Eb

PFO5Fb

PFO5/EM1Fb

PSS3E

PSS3/1Eb

PSS3/1E

### **FRESHWATER POND**

**PUBH** 

**PUBHx** 

**PUBFb** 

PUB/EM1Fb

**PUBHh** 

**PUBFx** 

<u>PUBF</u>

**RIVERINE** 

R2UBH

R5UBH

**R3UBH** 

R4SBC

A full description for each wetland code can be found at the National Wetlands Inventory website

### **Data limitations**

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

### Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

### **Data precautions**

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.